

<C10/823,659

ACCESSION NUMBER: 2004:326825 USPATFULL  
TITLE: Finely divided photoprotective oil-in-water emulsions  
comprising 4,4-  
diarylbutadiene UV-A  
sunscreens  
INVENTOR(S): Simonnet, Jean-Thierry, Cachan, FRANCE  
PATENT ASSIGNEE(S): L'OREAL, PARIS, FRANCE (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004258644	A1	20041223
APPLICATION INFO.:	US 2004-823715	A1	20040414 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2003-4648	20030414
	US 2003-468113P	20030506 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404	
NUMBER OF CLAIMS:	47	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1303	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB UV-Photoprotective oil-in-water emulsions well suited for  
photoprotecting the skin, lips and/or hair against the damaging effects  
of UV-radiation, the oil globules of which having an average  
size of at most 500 nm and containing particles of at least one ionic  
polymer and at least one UV-radiation-screening system, such  
screening system comprising at least one 4,4-  
diarylbutadiene UV-A-screening agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 7 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2004:285765 USPATFULL  
TITLE: Water-in-oil photoprotective emulsions comprising  
polyolefinic surfactants and 4,4-  
diarylbutadiene UV-A  
sunscreens  
INVENTOR(S): L'Alloret, Florence, Paris, FRANCE  
PATENT ASSIGNEE(S): L'OREAL, PARIS, FRANCE (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004223925	A1	20041111
APPLICATION INFO.:	US 2004-823735	A1	20040414 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2003-4649	20030414
	US 2003-468114P	20030506 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404	
NUMBER OF CLAIMS:	29	
EXEMPLARY CLAIM:	1	
LINE COUNT:	966	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Stable UV-photoprotective water-in-oil emulsions, well suited

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for the photoprotection of the skin, lips and/or hair against the damaging effects of UV-radiation, contain at least one polymeric surfactant comprising at least one polar part and at least one polyolefinic apolar part, and also containing at least one organic 4,4-diarylbutadiene UV-A-screening agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 8 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2004:285764 USPATFULL

TITLE: Aqueous photoprotective compositions comprising diblock or triblock copolymers and 4,4-diarylbutadiene UV-A sunscreens

INVENTOR(S): L'Alloret, Florence, Paris, FRANCE

PATENT ASSIGNEE(S): L'OREAL, PARIS, FRANCE, 75008 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004223924	A1	20041111
APPLICATION INFO.:	US 2004-823659	A1	20040414 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2003-4646	20030414
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404	
NUMBER OF CLAIMS:	42	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1579	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Photoprotective compositions, e.g., oil-in-water or water-in-oil emulsions, well suited for the photoprotection of the skin, lips and/or hair against the damaging effects of UV-radiation, comprise at least one aqueous phase, at least one water-soluble or water-dispersible polymer having a diblock structure A-B or a triblock structure B-A-B wherein A is an ionic water-soluble polymeric block and B is a hydrophobic polymeric block and at least one system screening out UV radiation, said at least one screening system comprising at least one 4,4-diarylbutadiene UV-A screening agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 9 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2004:120029 USPATFULL

TITLE: Dibenzoylmethane sunscreen compositions photostabilized with amphiphilic block copolymers

INVENTOR(S): Chodorowski-Kimmes, Sandrine, Senlis, FRANCE  
Quinn, Francis Xavier, Paris, FRANCE

PATENT ASSIGNEE(S): SOCIETE L'OREAL S.A., Paris, FRANCE (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004091434	A1	20040513
	US 7153494	B2	20061226
APPLICATION INFO.:	US 2003-688937	A1	20031021 (10)

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NEWS	9	JUN 27	CA/CAPplus enhanced with pre-1967 CAS Registry Numbers
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NEWS	11	JUN 29	STN Express, Version 8.2, now available
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NEWS	13	JUL 02	LMEDLINE coverage updated
NEWS	14	JUL 02	SCISEARCH enhanced with complete author names
NEWS	15	JUL 02	CHEMCATS accession numbers revised
NEWS	16	JUL 02	CA/CAPplus enhanced with utility model patents from China
NEWS	17	JUL 16	CAPplus enhanced with French and German abstracts
NEWS	18	JUL 18	CA/CAPplus patent coverage enhanced
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NEWS	22	AUG 06	BEILSTEIN updated with new compounds
NEWS	23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	24	AUG 13	CA/CAPplus enhanced with additional kind codes for granted patents

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AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

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FILE 'USPATFULL' ENTERED AT 14:29:56 ON 17 AUG 2007

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 16 Aug 2007 (20070816/PD)

FILE LAST UPDATED: 16 Aug 2007 (20070816/ED)

HIGHEST GRANTED PATENT NUMBER: US7257844

HIGHEST APPLICATION PUBLICATION NUMBER: US2007192920

CA INDEXING IS CURRENT THROUGH 16 Aug 2007 (20070816/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 16 Aug 2007 (20070816/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2007

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2007

=> s sunscreen? or uv

10456 SUNSCREEN?

210542 UV

L1 216038 SUNSCREEN? OR UV

=> s 11/ti

455 SUNSCREEN?/TI

2226 UV/TI

L2 2647 (SUNSCREEN?/TI OR UV/TI)

=> s 4,4-diarylbutadiene?

4825818 4

4825818 4

159 DIARYLBUTADIENE?

L3 136 4,4-DIARYLBUTADIENE?

(4(W)4(W)DIARYLBUTADIENE?)

=> d 12 and 13

L3 IS NOT VALID HERE

For an explanation, enter "HELP DISPLAY".

=> s 12 and 13

L4 52 L2 AND L3

=> s diblock? or triblock?

5127 DIBLOCK?

6566 TRIBLOCK?

L5 8090 DIBLOCK? OR TRIBLOCK?

=> s 14 and 15

L6 5 L4 AND L5

=> d 1-5 ibib abs

L6 ANSWER 1 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2006:340315 USPATFULL

TITLE: Gelled oil particles comprising at least one hydrophobic sunscreen

INVENTOR(S): Biatry, Bruno, Vincennes, FRANCE

Simonnet, Jean-Thierry, Cachan, FRANCE

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PATENT ASSIGNEE(S): L'OREAL, Paris, FRANCE (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006292095	A1	20061228
APPLICATION INFO.:	US 2006-434731	A1	20060517 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2005-51270	20050517
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA, VA, 22320, US	
NUMBER OF CLAIMS:	71	
EXEMPLARY CLAIM:	1	
LINE COUNT:	2490	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to calibrated oily particles comprising at least one hydrophobic sunscreen and comprising at least one oily phase structured with at least one gelling polymer, characterized in that it has a mean size of less than or equal to 20  $\mu$ m, in that the said structured oily phase has a melting point of greater than or equal to 40° C. and in that their circularity index is between 0.9 and 1.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2004:326825 USPATFULL  
TITLE: Finely divided photoprotective oil-in-water emulsions comprising 4,4-diarylbutadiene UV-A sunscreens  
INVENTOR(S): Simonnet, Jean-Thierry, Cachan, FRANCE  
PATENT ASSIGNEE(S): L'OREAL, PARIS, FRANCE (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004258644	A1	20041223
APPLICATION INFO.:	US 2004-823715	A1	20040414 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2003-4648	20030414
	US 2003-468113P	20030506 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404	
NUMBER OF CLAIMS:	47	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1303	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB UV-Photoprotective oil-in-water emulsions well suited for photoprotecting the skin, lips and/or hair against the damaging effects of UV-radiation, the oil globules of which having an average size of at most 500 nm and containing particles of at least one ionic polymer and at least one UV-radiation-screening system, such screening system comprising at least one 4,4-diarylbutadiene UV-A-screening agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L6 ANSWER 3 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2004:285765 USPATFULL

TITLE: Water-in-oil photoprotective emulsions comprising polyolefinic surfactants and 4,4-diarylbutadiene UV-A sunscreens

INVENTOR(S): L'Alloret, Florence, Paris, FRANCE

PATENT ASSIGNEE(S): L'OREAL, PARIS, FRANCE (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004223925	A1	20041111
APPLICATION INFO.:	US 2004-823735	A1	20040414 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2003-4649	20030414
	US 2003-468114P	20030506 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404	
NUMBER OF CLAIMS:	29	
EXEMPLARY CLAIM:	1	
LINE COUNT:	966	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Stable UV-photoprotective water-in-oil emulsions, well suited for the photoprotection of the skin, lips and/or hair against the damaging effects of UV-radiation, contain at least one polymeric surfactant comprising at least one polar part and at least one polyolefinic apolar part, and also containing at least one organic 4,4-diarylbutadiene UV-A-screening agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2004:285764 USPATFULL

TITLE: Aqueous photoprotective compositions comprising diblock or triblock copolymers and 4,4-diarylbutadiene UV-A sunscreens

INVENTOR(S): L'Alloret, Florence, Paris, FRANCE

PATENT ASSIGNEE(S): L'OREAL, PARIS, FRANCE, 75008 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004223924	A1	20041111
APPLICATION INFO.:	US 2004-823659	A1	20040414 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2003-4646	20030414
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404	
NUMBER OF CLAIMS:	42	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1579	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Photoprotective compositions, e.g., oil-in-water or water-in-oil

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emulsions, well suited for the photoprotection of the skin, lips and/or hair against the damaging effects of UV-radiation, comprise at least one aqueous phase, at least one water-soluble or water-dispersible polymer having a diblock structure A-B or a triblock structure B-A-B wherein A is an ionic water-soluble polymeric block and B is a hydrophobic polymeric block and at least one system screening out UV radiation, said at least one screening system comprising at least one 4,4-diarylbutadiene UV-A screening agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2004:120029 USPATFULL

TITLE: Dibenzoylmethane sunscreen compositions  
photostabilized with amphiphilic block copolymers

INVENTOR(S): Chodorowski-Kimmes, Sandrine, Senlis, FRANCE  
Quinn, Francis Xavier, Paris, FRANCE

PATENT ASSIGNEE(S): SOCIETE L'OREAL S.A., Paris, FRANCE (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004091434	A1	20040513
	US 7153494	B2	20061226
APPLICATION INFO.:	US 2003-688937	A1	20031021 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2002-13103	20021021
	US 2003-452541P	20030307 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404	
NUMBER OF CLAIMS:	36	
EXEMPLARY CLAIM:	1	
LINE COUNT:	865	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Topically applicable photostable sunscreen/photoprotective compositions contain at least one dibenzoylmethane UV-sunscreen and an effective photostabilizing amount therefor of at least one amphiphilic block copolymer which comprises at least one nonionic hydrophilic polymer block and at least one hydrophobic polymer block, formulated into a topically applicable, cosmetically acceptable medium therefor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s 6093385/pn

L7 0 6093385/PN

=> s us6093385/pn

L8 1 US6093385/PN

=> d his

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FILE 'USPATFULL' ENTERED AT 14:29:56 ON 17 AUG 2007

L1 216038 S SUNSCREEN? OR UV

L2 2647 S L1/TI

L3 136 S 4,4-DIARYLBUTADIENE?

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L4 52 S L2 AND L3  
L5 8090 S DIBLOCK? OR TRIBLOCK?  
L6 5 S L4 AND L5  
L7 0 S 6093385/PN  
L8 1 S US6093385/PN

=> s 18 and 13

L9 1 L8 AND L3

=> s polymer?

L10 834880 POLYMER?

=> s 19 and 110

L11 1 L9 AND L10

=> d kwic

L11 ANSWER 1 OF 1 USPATFULL on STN

TI 4,4-diarylbutadienes as water-soluble  
photostable UV filters for cosmetic and pharmaceutical preparations

PI US 6093385 20000725 <--

AB Use of 4,4-diarylbutadienes of the formula  
I, ##STR1## where the variables have the meanings explained in the  
description, as water-soluble photostable UV filters. . .

SUMM The invention relates to the use of 4,4-  
diarylbutadienes as water-soluble photostable UV filters in  
cosmetic and pharmaceutical preparations for protecting the human  
epidermis or human hair from UV. . .

SUMM This object is achieved according to the invention by use of 4  
,4-diarylbutadienes of the formula I ##STR2## where  
the diene system has the Z,Z; Z,E; E,Z or E,E configuration or a  
mixture. . .

SUMM The invention also relates to 4,4-  
diarylbutadienes of the formula I, ##STR4## where the diene  
system has the Z,Z; Z,E; E,Z or E,E configuration or a mixture. . .

SUMM Preference is given to 4,4-diarylbutadienes  
of the formula Ia, ##STR5## where the diene system has the Z,Z; Z,E; E,Z  
or E,E configuration or a mixture. . .

SUMM Particular preference is given to 4,4-  
diarylbutadienes of the formula Ib, ##STR6##

SUMM Very particular preference is given to 4,4-  
diarylbutadienes of the formula Ic, ##STR7## where the diene  
system has the Z,Z; Z,E; E,Z or E,E configuration or a mixture. . .

SUMM . . . film formers which are in use are hydrocolloids such as  
chitosan, microcrystalline chitosan or quaternized chitosan,  
polyvinylpyrrolidone, vinylpyrrolidone/vinyl acetate copolymers,  
polymers of the acrylic acid series, quaternary cellulose  
derivatives and similar compounds. Examples of suitable preservatives  
are formaldehyde solution, p-hydroxybenzoate or. . .

DETD . . . the ingredients have melted or are present as liquid phase, the  
aqueous phase, which comprises, in the dissolved state, the 4,  
4-diarylbutadienes of the formula I according to the  
invention, possibly in the form of their salts, is incorporated by  
homogenization. The. . .

CLM What is claimed is:

1. The method of using 4,4-diarylbutadienes  
of the formula I, ##STR17## where the diene system has the Z,Z; Z,E; E,Z  
or E,E configuration or a mixture. . .

=> s block?

L12 1877322 BLOCK?



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=> d his

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FILE 'USPATFULL' ENTERED AT 14:29:56 ON 17 AUG 2007

L1 216038 S SUNSCREEN? OR UV  
L2 2647 S L1/TI  
L3 136 S 4,4-DIARYLBUTADIENE?  
L4 52 S L2 AND L3  
L5 8090 S DIBLOCK? OR TRIBLOCK?  
L6 5 S L4 AND L5  
L7 0 S 6093385/PN  
L8 1 S US6093385/PN  
L9 1 S L8 AND L3  
L10 834880 S POLYMER?  
L11 1 S L9 AND L10  
L12 1877322 S BLOCK?

=> s l12 and l11

L13 0 L12 AND L11

<C10/823,659

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2002-13103	20021021
	US 2003-452541P	20030307 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS DOANE SWECKER & MATHIS L L P,	POST OFFICE BOX
	1404, ALEXANDRIA, VA,	22313-1404
NUMBER OF CLAIMS:	36	
EXEMPLARY CLAIM:	1	
LINE COUNT:	865	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Topically applicable photostable sunscreen/photoprotective compositions contain at least one dibenzoylmethane UV-sunscreen and an effective photostabilizing amount therefor of at least one amphiphilic block copolymer which comprises at least one nonionic hydrophilic polymer block and at least one hydrophobic polymer block, formulated into a topically applicable, cosmetically acceptable medium therefor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L16 1 US2004258644/PN

=> d his

(FILE 'HOME' ENTERED AT 14:29:37 ON 17 AUG 2007)

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L1 216038 S SUNSCREEN? OR UV  
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L7 0 S 6093385/PN  
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L9 1 S L8 AND L3  
L10 834880 S POLYMER?  
L11 1 S L9 AND L10  
L12 1877322 S BLOCK?  
L13 0 S L12 AND L11  
L14 9 S L5 AND L3  
L15 9 S L14 AND L1  
L16 1 S US2004258644/PN